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BOX PATENT APPLICATION
Washington, D.C. 20231
Commissioner for Patents

Attorney Docket No.: 010141

Date: April 4, 2001

Express Mail Label No.: EK 807 712 991 US

Dear Sir:

Transmitted herewith for filing is the patent application of:

Inventor(s): ANDREW SENDONARIS, RAJESH SUNDARESANFor: METHOD AND APPARATUS FOR ESTIMATING CHANNEL CHARACTERISTICS USING PILOT AND NON-PILOT DATA

Enclosed are:

1. Patent application (29) total pages.
2. Drawings: Formal (8) sheet(s) or Informal () sheet(s).
3. Declaration/Power of Attorney: Signed Unsigned
4. An Assignment () pages and Recordation Form Cover Sheet.
5. A Preliminary Amendment () pages.
6. Information Disclosure Statement (IDS):
 - a. PTO-1449
 - b. Copies of IDS Citations (number of citations:)
7. Other: Certificate of Express Mail; return receipt postcard

CLAIMS:	(a) Filed	(b) Extra Claims	Large Entity Fee	Fee Paid
Total*	25 - 20	5	X \$18 =	\$90
Independent**	4-3	1	X \$80 =	\$80
Multiple Dependent Claim(s): <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes			\$270	\$0
APPLICATION FILING FEE			\$710	\$710
			TOTAL FEE	\$880

*If the number in column a is less than 20, enter 0 in column b.

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8. Fee check in the amount of \$0.00 is enclosed to pay for any claim and/or extension fees.
9. Please charge Deposit Account No. 17-0026 of QUALCOMM Incorporated the amount of \$880.
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Date: April 4, 2001

Signature: Charles D. Brown
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